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### 1 [Techniques for debugging parallel programs with flowback analysis](#)

Jong-Deok Choi, Barton P. Miller, Robert H. B. Netzer

October 1991 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 13 Issue 4

Full text available: [pdf\(2.73 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
**Keywords:** debugging, flowback analysis, incremental tracing, parallel program, program dependence graph, semantic analysis

### 2 [Parallel programming with control abstraction](#)

Lawrence A. Crowl, Thomas J. LeBlanc

May 1994 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 16 Issue 3

Full text available: [pdf\(3.68 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Parallel programming involves finding the potential parallelism in an application and mapping it to the architecture at hand. Since a typical application has more potential parallelism than any single architecture can exploit effectively, programmers usually limit their focus to the parallelism that the available control constructs express easily and that the given architecture exploits efficiently. This approach produces programs that exhibit much less parallelism that exists in the applic ...

**Keywords:** architectural adaptability, closures, control abstraction, data abstraction, early reply, multiprocessors, parallel programming languages, performance tuning

### 3 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**Full text available: [pdf\(4.21 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



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modeling and sequence and parallel and event and entry and exit and node



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Relevance scale ☐ ☐ ☐ ☐ ☐**1** [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies  
on Collaborative research**
Full text available: [pdf\(4.21 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

**2** [A framework for modeling and implementing visual notations with applications to software engineering](#)

Gennaro Costagliola, Vincenzo Deufemia, Giuseppe Polese

 October 2004 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,  
Volume 13 Issue 4
Full text available: [pdf\(3.77 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a framework for modeling visual notations and for generating the corresponding visual programming environments. The framework can be used for modeling the diagrammatic notations of software development methodologies, and to generate visual programming environments with CASE tools functionalities. This is accomplished through an underlying modeling process based on the visual notation syntactic model of eXtended Positional Grammars (XPG, for short), and the associated parsing methodolo ...

**Keywords:** LR parsing, UML, meta-CASE, metamodeling, software engineering models, visual grammars, visual notations

**3** [Modeling concurrency in parallel debugging](#)

W. Hseush, G. E. Kaiser

 February 1990 **ACM SIGPLAN Notices , Proceedings of the second ACM SIGPLAN  
symposium on Principles & practice of parallel programming**, Volume 25  
Issue 3
Full text available: [pdf\(1.20 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)